

What is claimed is:

1. In a wireless transmission apparatus for constructing a wireless network by using a plurality of transmission apparatus to transmit information among it and a plurality of other communication stations, said wireless transmission apparatus being characterized by:

interface means for detecting connection bus information of a bus connected to a certain wireless transmission apparatus;

wireless information transmitting means for transmitting corresponding connection bus information to said wireless network;

wireless information receiving means for receiving connection bus information transmitted from other wireless transmission apparatus located within said wireless network;  
and

internal storage means for storing therein these connection bus information.

2. In a wireless transmission apparatus according to claim 1, said wireless transmission apparatus wherein said wireless information transmitting means transmits said connection bus information to said wireless network when said interface means detects the change of connection bus information.

3. In a wireless transmission apparatus for constructing a wireless network by using a plurality

of transmission apparatus to transmit information among it and a plurality of other communication stations, said wireless transmission apparatus being characterized by: internal storage means for storing therein connection bus information within said wireless network; and

judging means for judging based on connection bus information of said wireless network whether or not information should be transmitted by radio when it receives wireless transmission information from a connection bus connected to a corresponding wireless transmission apparatus.

4. In a wireless transmission apparatus for constructing a wireless network by using a plurality of transmission apparatus to transmit information among it and a plurality of other communication stations, said wireless transmission apparatus being characterized by:

internal storage means for storing therein connection bus information within said wireless network; and

recognizing means for recognizing a wireless transmission apparatus to which information is transmitted by radio based on connection bus information in each of said other communication stations when it receives wireless transmission information from a connection bus connected to a corresponding wireless transmission apparatus.

5. In a network management method in which a wireless network is comprised of a plurality of transmission apparatus to transmit information, said network management method being

wherein network connection bus information connected to a corresponding wireless network is managed by all communication stations comprising said network.

6. In a network management method in which a wireless network is comprised of a plurality of transmission apparatus to transmit information, said network management method being wherein connection bus information of every communication station connected to a corresponding wireless network is managed by all communication stations comprising said network.

7. In a network management method in which a wireless network is comprised of a plurality of transmission apparatus to transmit information, said network management method being wherein, when connection bus information connected to its own communication station connected to a corresponding wireless network is changed, information indicative of said change of connection bus information is transmitted to the whole of said wireless network.

8. In a wireless transmission method in which a wireless network is comprised of a plurality of transmission apparatus to transmit information, said wireless transmission method being wherein, when a destination communication station to which information is transmitted by radio is designated, it is determined based on bus information of wireless transmission information in a corresponding wireless network and network connection bus information connected to a corresponding wireless network whether or not information should be transmitted by

radio.

9. In a wireless transmission method in which a wireless network is comprised of a plurality of transmission apparatus to transmit information, said wireless transmission method being wherein, when a destination communication station to which information is transmitted by radio is designated, said destination communication station is designated with reference to bus information of corresponding wireless transmission information and connection bus information connected to every communication station connected to a corresponding wireless network.